IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF: Buckbinder

APPLICATION NO.: To Be Assigned   Examiner: To Be Assigned

FILING DATE: To Be Assigned

TITLE: ADAMTS POLYPEPTIDES,

NUCLEIC ACIDS ENCODING THEM AND USES

THEREOF

Assistant Commissioner for Patents
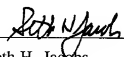Washington, DC 20231

Sir:

STATEMENT REGARDING SEQUENCE LISTING

Applicant hereby states that the computer readable sequence listing and paper copy
of said listing included herewith contain identical information.

Respectfully submitted,

Dated: _____   _____

Pfizer Inc   Seth H. Jacobs
235 East 42nd Street   Attorney for the Applicants
New York, NY 10017-5755   Reg. No. 32,140
(212) 733-3678

Exp. Mail No. EM 511141197 US

SEQUENCE LISTING

<110> PFIZER INC.

<120> ADAMTS POLYPEPTIDES, NUCLEIC ACIDS ENCODING THEM, AND
      USES THEREOF

<130> PC10851A

<140>
<141>

<160> 4

<170> PatentIn Ver. 2.1

<210> 1
<211> 4248
<212> DNA
<213> Human

<400> 1
```
ccgggtcgac ccacgcgtcc gaaggccccc tctcactccg ctccactcct cgggctggct 60
ctcctgagga tgcaccagcg tcaccccgg gcaagatgcc ctcccctctg tgtggccgga 120
atccttgcct gtggcttct cctgggctgc tggggaccct cccatttcca gcagagttgt 180
cttcaggctt tggagccaca ggccgtgtct tcttacttga gccctggtgc tccttaaaa 240
ggccgccctc cttccctgg cttccagagg cagaggcaga ggcagaggcg ggctgcaggc 300
ggcatcctac acctggagct gctggtggcc gtgggccccg atgtcttcca ggctcaccag 360
gaggacacag agcgctatgt gctcaccaac ctcaacatcg gggcagaact gcttcgggac 420
ccgtccctgg cggctcagtt tcgggtgcac ctggtgaaga tggtcattct gacagagct 480
gagggtgctc caaatatcac agccaacctc acctcgtccc tgctgagcgt ctgtgggtgg 540
agccagacca tcaaccctga ggacgacacg gatcctggcc atgctgacct ggtcctctat 600
atcactaggt ttgacctgga gttgcctgat ggtaaccggc aggtgcgggg cgtcacccag 660
ctgggcggtg cctgctcccc aacctggagc tgcctcatta ccgaggcac tggcttcgac 720
ctggagtca ccattgccca tgagattggg cacagcttcg gcctggagca cgacggcgcg 780
cccggcagcg gctgcggccc cagcggacac gtgatggctt cggacggcgc cgcgccccgc 840
gccggcctcg cctggtcccc ctgcagccgc cggcagctgc tgagcctgct cagcgcagga 900
cgggcgcgct gcgtgtggga cccgccgcgg cctcaacccg ggtccgcggg gcacccgccg 960
gatgcgcagc ctggcctcta ctacagcgcc aacgagcagt gccgcgtggc cttcggcccc 1020
aaggctgtcg cctgcacctt cgccagggag cacctggata tgtgccaggc cctctcctgc 1080
cacacagacc cgctggacca aagcagctgc agccgcctcc tcgttcctct cctggatggg 1140
acagaatgtg gcgtggagaa gtggtgctcc aagggtcgct gccgctccct ggtggagctg 1200
accccccatag cagcagtgca tgggcgctgg tctagctggg gtccccgaag tccttgctcc 1260
cgctcctgcg gaggaggtgt ggtcaccagg aggcggcagt gcaacaaccc cagacctgcc 1320
tttgggggc gtgcatgtgt tggtgctgac ctccaggccg agatgtgcaa cactcaggcc 1380
tgcgagaaga cccagctgga gttcatgtcg caacagtgcg ccaggaccga cggccagccg 1440
ctgcgctcct ccctggccgg cgcctccttc taccactggg gtgctgctgt accacacagc 1500
caagggatg ctctgtgcag acacatgtgc cgggccattg gcgagagctt catcatgaag 1560
```
                                    1

```
cgtggagaca gcttcctcga tgggacccgg tgtatgccaa gtggccccccg ggaggacggg 1620
accctgagcc tgtgtgtgtc gggcagctgc aggacatttg gctgtgatgg taggatggac 1680
tcccagcagg tatgggacag gtgccaggtg tgtggtgggg acaacagcac gtgcagccca 1740
cggaaggct ctttcacagc tggcagagcg agagaaatatg tcacgtttct gacagttacc 1800
cccaacctga ccagtgtcta cattgccaac cacaggcctc tcttcacaca cttggcgggtg 1860
aggatcggag ggcgctatgt cgtggctggg aagatgagca tctcccctaa caccacctac 1920
ccctccctcc tggaggatgg tcgtgtcgag tacagagtgg ccctcaccga ggaccggctg 1980
cccgcctgg aggagatccg catctgggga cccctccagg aagatgctga catccaggtt 2040
tacaggcggt atggcgagga gtatgcgaac ctcaccgcc cagacatcac cttcacctac 2100
ttccagccta agccacggca ggcctgggtg tgggccgctg tgcgtgggcc ctgctcgggtg 2160
agctgtgggg cagggctgcg ctggctaaac tacagctgcc tggaccaggc caggaaggag 2220
ttggtggaga ctgtccagtg ccaagggagc cagcagccac cagcgtggcc agaggcctgc 2280
gtgctcgaac cctgccctcc ctactgggcg gtgggagact tcggcccatg cagcgcctcc 2340
tgtgggggtg gcctgcggga gcggccagtg cgctgcgtgg aggcccaggg cagcctcctg 2400
aagacattgc cccagcccg gtgcagagca ggggcccagc agccagctgt ggcgctggaa 2460
acctgcaacc cccagccctg ccctgccagg tgggagtgt cagagcccag ctcatgcaca 2520
tcagctggtg gagcaggcct ggccttggag aacgagacct gtgtgccagg ggcagatggc 2580
ctggaggctc cagtgactga ggggcctggc tccgtagatg agaagctgcc tgcccctgag 2640
ccctgtgtcg ggatgtcatg tcctccaggc tggggccatc tggatgccac ctctgcaggg 2700
gagaaggctc cctccccatg gggcagcatc aggacggggg ctcaagctgc acacgtgtgg 2760
accctgcgg caggtcgtg ctccgtctcc tgcgggcgag gtctgatgga gctgcgtttc 2820
ctgtgcatgg actctgccct caggtgcct gtccaggaag agctgtgtgg cctggcaagc 2880
aagcctggga gccggccgga ggtctgccag gctgtcccgt gccctgctcg gtggcagtac 2940
aagctggcgg cctgcagcgt gagctgtggg agaggggtcg tgcggaggat cctgtattgt 3000
gcccgggccc atggggagga cgatggtgag gagatcctgt tggacaccca gtgccagggg 3060
ctgcctcgcc cggaaccccca ggaggcctgc agcctggagc cctgcccacc taggtggaaa 3120
gtcatgtccc ttggccatg ttcggccagc tgtggccttg gcactgctag acgctcggtg 3180
gcctgtgtgc agctcgacca aggccaggac gtggaggtgg acgaggcggc ctgtgcgggcg 3240
ctggtcgcgc ccgaggccag tgtcccctgt ctcattgccg actgcaccta ccgctggcat 3300
gttggcacct ggatggagtg ctctgtttcc tgtgggatg gcatccagcg ccggcgtgac 3360
acctgcctcg gaccccaggc ccaggcgcct gtgccagctg atttctgcca gacttgccc 3420
aagccggtga ctgtcgctgg ctgctgggct gggccctgtg tgggacaggg tacgcccagc 3480
ctggtgcccc acgaagaagc cgctgctcca ggacggacca cagccacccc tgctggtgcc 3540
tgtgtggcaggc agcaccttga gccaacagga accattgaca tgcgaggccc agggcaggca 3600
gactgtgcag tggccattgg gcggcccctc ggggaggtgg tgacctccg cgtccttgag 3660
agttctctca actgcagtgc gggggacatg ttgctgcttt ggggccgggct cacctggagg 3720
aagatgtgca ggaagctgtt ggacatgact ttcagctcca agaccaacac gctggtggtg 3780
aggcagcgct gcgggcggcc aggaggtggg gtgctgctgc ggtatgggag ccagcttgct 3840
cctgaaacct tctacagaga atgtgacatg cagctctttg ggccctgggg tgaaatcgtg 3900
agccctcgc tgagtccagc cacgagtaat gcaggggget gccggctctt cattaatgtg 3960
gctccgcacg cacggattgc catccatgcc ctggccacca acatggccgc tgggaccgag 4020
ggagccaatg ccagctacat cttgatccgg gacacccaca gcttgaggac cacagcgttc 4080
catgggcagc aggtgctcta ctgggagtca gagagcagcc aggctgagat ggagttcagc 4140
gagggcttcc tgaaggctca ggccagcctg cgggcgccagt actggaccct ccaatcatgg 4200
gtaccggaga tgcaggaccc tcagtcctgg aaggggaaagg aaggaacc         4248
```

2

<210> 1416
<212> PRT
<213> Human

<400> 2

```
Pro Gly Arg Pro Thr Arg Pro Lys Ala Pro Ser His Ser Ala Pro Leu
 1               5                  10                  15

Leu Gly Leu Ala Leu Leu Arg Met His Gln Arg His Pro Arg Ala Arg
               20                  25                  30

Cys Pro Pro Leu Cys Val Ala Gly Ile Leu Ala Cys Gly Phe Leu Leu
           35                  40                  45

Gly Cys Trp Gly Pro Ser His Phe Gln Gln Ser Cys Leu Gln Ala Leu
       50                  55                  60

Glu Pro Gln Ala Val Ser Ser Tyr Leu Ser Pro Gly Ala Pro Leu Lys
65                  70                  75                  80

Gly Arg Pro Pro Ser Pro Gly Phe Gln Arg Gln Arg Gln Arg Gln Arg
               85                  90                  95

Arg Ala Ala Gly Gly Ile Leu His Leu Glu Leu Leu Val Ala Val Gly
           100                 105                 110

Pro Asp Val Phe Gln Ala His Gln Glu Asp Thr Glu Arg Tyr Val Leu
       115                 120                 125

Thr Asn Leu Asn Ile Gly Ala Glu Leu Leu Arg Asp Pro Ser Leu Gly
       130                 135                 140

Ala Gln Phe Arg Val His Leu Val Lys Met Val Ile Leu Thr Glu Pro
145                 150                 155                 160

Glu Gly Ala Pro Asn Ile Thr Ala Asn Leu Thr Ser Ser Leu Leu Ser
               165                 170                 175

Val Cys Gly Trp Ser Gln Thr Ile Asn Pro Glu Asp Asp Thr Asp Pro
           180                 185                 190

Gly His Ala Asp Leu Val Leu Tyr Ile Thr Arg Phe Asp Leu Glu Leu
       195                 200                 205

Pro Asp Gly Asn Arg Gln Val Arg Gly Val Thr Gln Leu Gly Gly Ala
       210                 215                 220

Cys Ser Pro Thr Trp Ser Cys Leu Ile Thr Glu Asp Thr Gly Phe Asp
```

3

Leu Gly Val Thr Ile Ala His Glu Ile Gly His Ser Phe Gly Leu Glu
                245   250   255

His Asp Gly Ala Pro Gly Ser Gly Cys Gly Pro Ser Gly His Val Met
            260   265   270

Ala Ser Asp Gly Ala Ala Pro Arg Ala Gly Leu Ala Trp Ser Pro Cys
        275   280   285

Ser Arg Arg Gln Leu Leu Ser Leu Leu Ser Ala Gly Arg Ala Arg Cys
    290   295   300

Val Trp Asp Pro Pro Arg Pro Gln Pro Gly Ser Ala Gly His Pro Pro
305   310   315   320

Asp Ala Gln Pro Gly Leu Tyr Tyr Ser Ala Asn Glu Gln Cys Arg Val
            325   330   335

Ala Phe Gly Pro Lys Ala Val Ala Cys Thr Phe Ala Arg Glu His Leu
            340   345   350

Asp Met Cys Gln Ala Leu Ser Cys His Thr Asp Pro Leu Asp Gln Ser
        355   360   365

Ser Cys Ser Arg Leu Leu Val Pro Leu Leu Asp Gly Thr Glu Cys Gly
    370   375   380

Val Glu Lys Trp Cys Ser Lys Gly Arg Cys Arg Ser Leu Val Glu Leu
385   390   395   400

Thr Pro Ile Ala Ala Val His Gly Arg T ～ Ser Ser Trp Gly Pro Arg
            405   410   415

Ser Pro Cys Ser Arg Ser Cys Gly Gly Gly Val Val Thr Arg Arg Arg
        420   425   430

Gln Cys Asn Asn Pro Arg Pro Ala Phe Gly Gly Arg Ala Cys Val Gly
        435   440   445

Ala Asp Leu Gln Ala Glu Met Cys Asn Thr Gln Ala Cys Glu Lys Thr
    450   455   460

Gln Leu Glu Phe Met Ser Gln Gln Cys Ala Arg Thr Asp Gly Gln Pro
465   470   475   480

Leu Arg Ser Ser Pro Gly Gly Ala Ser Phe Tyr His Trp Gly Ala Ala

Val Pro His Ser Gln Gly Asp Ala Leu Cys Arg His Met Cys Arg Ala
              500   505   510

Ile Gly Glu Ser Phe Ile Met Lys Arg Gly Asp Ser Phe Leu Asp Gly
           515   520   525

Thr Arg Cys Met Pro Ser Gly Pro Arg Glu Asp Gly Thr Leu Ser Leu
        530   535   540

Cys Val Ser Gly Ser Cys Arg Thr Phe Gly Cys Asp Gly Arg Met Asp
545   550   555   560

Ser Gln Gln Val Trp Asp Arg Cys Gln Val Cys Gly Gly Asp Asn Ser
                565   570   575

Thr Cys Ser Pro Arg Lys Gly Ser Phe Thr Ala Gly Arg Ala Arg Glu
           580   585   590

Tyr Val Thr Phe Leu Thr Val Thr Pro Asn Leu Thr Ser Val Tyr Ile
        595   600   605

Ala Asn His Arg Pro Leu Phe Thr His Leu Ala Val Arg Ile Gly Gly
        610   615   620

Arg Tyr Val Val Ala Gly Lys Met Ser Ile Ser Pro Asn Thr Thr Tyr
625   630   635   640

Pro Ser Leu Leu Glu Asp Gly Arg Val Glu Tyr Arg Val Ala Leu Thr
                645   650   655

Glu Asp Arg Leu Pro Arg Leu Glu Glu Ile Arg Ile Trp Gly Pro Leu
           660   665   670

Gln Glu Asp Ala Asp Ile Gln Val Tyr Arg Arg Tyr Gly Glu Glu Tyr
           675   680   685

Gly Asn Leu Thr Arg Pro Asp Ile Thr Phe Thr Tyr Phe Gln Pro Lys
        690   695   700

Pro Arg Gln Ala Trp Val Trp Ala Ala Val Arg Gly Pro Cys Ser Val
705   710   715   720

Ser Cys Gly Ala Gly Leu Arg Trp Val Asn Tyr Ser Cys Leu Asp Gln
                725   730   735

Ala Arg Lys Glu Leu Val Glu Thr Val Gln Cys Gln Gly Ser Gln Gln

5

Pro Pro Ala Trp Pro Glu Ala Cys Val Leu Glu Pro Cys Pro Pro Tyr
       755   760   765

Trp Ala Val Gly Asp Phe Gly Pro Cys Ser Ala Ser Cys Gly Gly Gly
    770   775   780

Leu Arg Glu Arg Pro Val Arg Cys Val Glu Ala Gln Gly Ser Leu Leu
785   790   795   800

Lys Thr Leu Pro Pro Ala Arg Cys Arg Ala Gly Ala Gln Gln Pro Ala
                805   810   815

Val Ala Leu Glu Thr Cys Asn Pro Gln Pro Cys Pro Ala Arg Trp Glu
            820   825   830

Val Ser Glu Pro Ser Ser Cys Thr Ser Ala Gly Gly Ala Gly Leu Ala
         935   840   845

Leu Glu Asn Glu Thr Cys Val Pro Gly Ala Asp Gly Leu Glu Ala Pro
    850   855   860

Val Thr Glu Gly Pro Gly Ser Val Asp Glu Lys Leu Pro Ala Pro Glu
865   870   875   880

Pro Cys Val Gly Met Ser Cys Pro Pro Gly Trp Gly His Leu Asp Ala
            885   890   895

Thr Ser Ala Gly Glu Lys Ala Pro Ser Pro Trp Gly Ser Ile Arg Thr
         900   905   910

Gly Ala Gln Ala Ala His Val Trp Thr Pro Ala Ala Gly Ser Cys Ser
    915   920   925

Val Ser Cys Gly Arg Gly Leu Met Glu Leu Arg Phe Leu Cys Met Asp
930   935   940

Ser Ala Leu Arg Val Pro Val Gln Glu Glu Leu Cys Gly Leu Ala Ser
945   950   955   960

Lys Pro Gly Ser Arg Arg Glu Val Cys Gln Ala Val Pro Cys Pro Ala
            965   970   975

Arg Trp Gln Tyr Lys Leu Ala Ala Cys Ser Val Ser Cys Gly Arg Gly
         980   985   990

Val Val Arg Arg Ile Leu Tyr Cys Ala Arg Ala His Gly Glu Asp Asp

Gly Glu Glu Ile Leu Leu Asp Thr Gln Cys Gln Gly Leu Pro Arg Pro
     1010   1015   1020

Glu Pro Gln Glu Ala Cys Ser Leu Glu Pro Cys Pro Pro Arg Trp Lys
1025   1030   1035   1040

Val Met Ser Leu Gly Pro Cys Ser Ala Ser Cys Gly Leu Gly Thr Ala
                1045   1050   1055

Arg Arg Ser Val Ala Cys Val Gln Leu Asp Gln Gly Gln Asp Val Glu
             1060   1065   1070

Val Asp Glu Ala Ala Cys Ala Ala Leu Val Arg Pro Glu Ala Ser Val
          1075   1080   1085

Pro Cys Leu Ile Ala Asp Cys Thr Tyr Arg Trp His Val Gly Thr Trp
     1090   1095   1100

Met Glu Cys Ser Val Ser Cys Gly Asp Gly Ile Gln Arg Arg Arg Asp
1105   1110   1115   1120

Thr Cys Leu Gly Pro Gln Ala Gln Ala Pro Val Pro Ala Asp Phe Cys
                1125   1130   1135

Gln His Leu Pro Lys Pro Val Thr Val Arg Gly Cys Trp Ala Gly Pro
             1140   1145   1150

Cys Val Gly Gln Gly Thr Pro Ser Leu Val Pro His Glu Ala Ala
          1155   1160   1165

Ala Pro Gly Arg Thr Thr Ala Thr Pro Ala Gly Ala Cys Gly Arg Gln
     1170   1175   1180

His Leu Glu Pro Thr Gly Thr Ile Asp Met Arg Gly Pro Gly Gln Ala
1185   1190   1195   1200

Asp Cys Ala Val Ala Ile Gly Arg Pro Leu Gly Glu Val Val Thr Leu
                1205   1210   1215

Arg Val Leu Glu Ser Ser Leu Asn Cys Ser Ala Gly Asp Met Leu Leu
             1220   1225   1230

Leu Trp Gly Arg Leu Thr Trp Arg Lys Met Cys Arg Lys Leu Leu Asp
          1235   1240   1245

Met Thr Phe Ser Ser Lys Thr Asn Thr Leu Val Val Arg Gln Arg Cys

Gly Arg Pro Gly Gly Gly Val Leu Leu Arg Tyr Gly Ser Gln Leu Ala
1265   1270   1275   1280

Pro Glu Thr Phe Tyr Arg Glu Cys Asp Met Gln Leu Phe Gly Pro Trp
                1285   1290   1295

Gly Glu Ile Val Ser Pro Ser Leu Ser Pro Ala Thr Ser Asn Ala Gly
            1300   1305   1310

Gly Cys Arg Leu Phe Ile Asn Val Ala Pro His Ala Arg Ile Ala Ile
        1315   1320   1325

His Ala Leu Ala Thr Asn Met Gly Ala Gly Thr Glu Gly Ala Asn Ala
    1330   1335   1340

Ser Tyr Ile Leu Ile Arg Asp Thr His Ser Leu Arg Thr Thr Ala Phe
1345   1350   1355   1360

His Gly Gln Gln Val Leu Tyr Trp Glu Ser Glu Ser Ser Gln Ala Glu
                1365   1370   1375

Met Glu Phe Ser Glu Gly Phe Leu Lys Ala Gln Ala Ser Leu Arg Gly
            1380   1385   1390

Gln Tyr Trp Thr Leu Gln Ser Trp Val Pro Glu Met Gln Asp Pro Gln
        1395   1400   1405

Ser Trp Lys Gly Lys Glu Gly Thr
    1410   1415

<210> 3
<211> 22
<212> DNA
<213> Human

<400> 3
gaagctgtgc ccaatctcat gg   22

<210> 4
<211> 17
<212> DNA
<213> Human

<400> 4